

REMARKS

Claims 36, 39-42, 44-52, and 62-67 are pending in the application. Claim 43 has been cancelled. Claims 36, 41, 42, 46, and 47 have been amended. Claims 62-67 are new. Reconsideration is requested.

REJECTIONS UNDER 35 U.S.C. §103

Claims 36 and 39-52 were rejected under 35 U.S.C. §103(a) as unpatentable over U.S. Patent No. 6,667,810 ("Jeyachandran") in view of U.S. Patent No. 6,096,091 ("Hartman").

Claim 36 recites, *inter alia*, "a formatter controller module configured to perform at least one formatting function associated with the print job using the processor; a print server module configured to manage a print queue using the processor; and a substrate including a microchip comprising the processor, the system I/O, the formatter controller module, and the print server module."

Jeyachandran describes a client component and a server component that may be present in the same device or in different devices connected across a network. *See* col. 17, lines 43-46. The server component interprets received requests and adds or deletes jobs from a database. *See* col. 17, lines 48-51. The server component is constituted by a web server, a device manager, a request manager, and a command analysis/process unit. *See* col. 18, lines 4-9. In one example, one device is a printer and one device is a personal computer. Both the printer and the personal computer include a server component and a daemon module. *See* col. 19, lines 26-34.

Further, the Office Action asserts that Jeychandran describes a format conversion, which corresponds to a first formatting function. *See* Office Action, p. 3. The format conversion uses an image conversion library that corresponds to the receiver device. Col. 29, lines 28-31. The format conversion is part of the SendJob() function. *See* col. 29, lines 23-25. The SendJob() function is performed by the separate conversion control unit 602, as shown by Figure 6. *See* col. 30, lines 23-33. The Office Action acknowledges that the various functions are not performed by a single microchip. *See* p. 3.

The Office Action states that Hartmann describes a scenario where “multiple devices are on a single chip.” To the contrary, Hartman describes a chain of logical networks. “The chain of logical networks 110 may be of any length, either limited to a single integrated circuit 100, or passing various inputs and outputs between a plurality of integrated circuits.” *See* col. 6, lines 10-14. Hartman’s chain of logical networks is not a substrate including a microchip comprising the processor, the system I/O, the formatter controller module, and the print server module.

In addition, even if the teachings of Hartman would lead one of ordinary skill in the art to combine the various components of Jeyachandran, the combination would not suggest the claimed invention. Claims 36 recites that the formatter controller module and the print server module use the same processor. However, the conversion functions and server functions in Jeyachandran are performed by different components that, even if combined on a single integrated circuit or single microchip, would not share the same processor.

For at least these reasons, Applicants submit that the rejection of claim 36 should be withdrawn. Further, the rejections of claims 39-42 and 44-52 should be withdrawn, because, at a minimum, claims 39-42 and 44-52 depend from claim 36.

Dependent claim 47 recites, “wherein the print server is configured to generate a print server interrupt in response to detecting the print job, and the processor is configured to interrupt the at least one print function and perform a print server function in response to receiving the print server interrupt.”

The Office Action asserts that in Jeyachandran, the request from the client component at step S1101 corresponds to a print server interrupt. *See* Office Action, p. 7. However, a simple request is not a processor interrupt, and Jeyachandran is silent regarding a “processor is configured to interrupt the at least one print function and perform a print server function in response to receiving the print server interrupt.” Further, Hartman is silent regarding a print server interrupt. Therefore, Applicants request that the rejection of claims 27 be withdrawn.

New Claims

Claims 62-67 are new. None of the cited prior art teaches or suggest all of the features of claims 62-67. Allowance of claims 62-67 is requested.

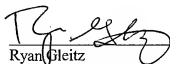
Conclusion

Therefore, in view of the above remarks, Applicant respectfully submits that this application is in condition for allowance and such action is earnestly requested.

If for any reason the Examiner is not able to allow the application, she is requested to contact the Applicant's undersigned attorney at (312) 321-3225.

Respectfully submitted,

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